

## ORBEL CORPORATION

Orbel photo chemically etches light gauge metal parts from a wide variety of materials ranging in thickness from 0.00070" to 0.032". Our manufacturing techniques allow us to etch the most intricate components while maintaining extremely tight tolerances. Low-cost rapid prototyping and in-house photo tooling allows for frequent design iterations to ensure customers achieve optimal results. Orbel's photo chemical etching process, also called photo chemical milling, provides numerous advantages including:

- Allows for intricate component configurations
- Quick turnaround on parts
- Eliminates the cost of hard tooling
- Produces burr and stress-free high quality precision parts
- Eliminates the stress of work hardening
- Allows for quick design modifications
- Etching metals as thin as 0.00070 in. (0.003mm)
- Etching metals up to 24 in. wide and 72 in. long
- Wide selection of materials including, but not limited to Beryllium Copper, Copper, Stainless Steel, Brass, Phosphor Bronze, Nickel Silver, and Steel
- ISO 9001:2008 certified processes

### APPLICATIONS

- Optical Encoders
- Filters/Screens/Sieves
- Washers
- Flat Springs
- Diaphragms
- Lead Frames
- Custom Shims / Spacers
- EMI / RFI Shielding
- Board Level Shielding
- Electrical Connectors / Contacts

### ADDITIONAL IN-HOUSE CAPABILITIES

- Photo Tooling
- Precision Metal Stampings
- Rapid Prototyping
- Secondary Metal Forming
- Short & High Volume Production
- Heat Treating, Riveting & Welding
- Electroplating & Passivation
- Design Services